Figure 1A

1		60
61		120
121		180
181		240
241		300
301		360
361		420
421 1		480 8
48 1 9		540 28
541 29	GGCGCACTAGGCAATGGGGTCGCCCTGTGTGGTTTCTGCTTCCACATGAAGACCTGGAAG G A L G N G V A L C G F C F H M K T W K	600 48
601 49		660 68
661 69		720 88
721 89		780 108
781 109		840 128
841 129	ACCCGGGTGGCGCTGGCATCGTCTGCACCCTGTGGGCCCTGGTCATCCTGGGAACAGTG T R V A A G I V C T L W A L V I L G T V	900 148
901 149	TATCTTTTGCTGGAGAACCATCTCTGCGTGCAAGAGACGGCCGTCTCCTGTGAGAGCTTC \underline{Y} \underline{L} \underline{L} \underline{L} \underline{E} \underline{N} \underline{H} \underline{L} \underline{C} \underline{V} \underline{Q} \underline{E} \underline{T} \underline{A} \underline{V} \underline{S} $\underline{\underline{G}}$ \underline{E} \underline{S} \underline{F}	960 168

	Figure 1B	
961 169	ATCATGGAGTCGGCCAATGGCTGGCATGACATCATGTTCCAGCTGGAGTTCTTTATGCCC I M E S A N G W H D <u>I M F Q L E F F M P</u>	1020 188
1021 189	CTCGGCATCATCTTATTTTGCTCCTTCAAGATTGTTTGGAGCCTGAGGCGGAGGCAGCAG	1080 208
1081 209		1140 228
1141 229	TTCATCACATGCTACCTGCCCAGCGTGTCTGCTAGACTCTATTTCCTCTGGACGGTGCCC F I T C Y L P S V S A R L Y F L W T V P	1200 248
1201 249	TCGAGTGCCTGCGATCCCTCTGTCCATGGGGCCCTGCACATAACCCTCAGCTTCACCTAC S S A G D P S V H G A L H I T L S F T Y	1260 268
1261 269	ATGAACAGCATGCTGGATCCCCTGGTGTATTATTTTTCAAGCCCCTCCTTTCCCAAATTC M N S M L D P L V Y Y F S S P S F P K F	1320 288
1321 289	TACAACAAGCTCAAAATCTGCAGTCTGAAACCCAAGCAGCAGCAGGACACTCAAAAAACACAA Y N K L K I C S L K P K Q P G H S K T Q	1380 308
1381 309	AGGCCGGAAGAGATGCCAATTTCGAACCTCGGTCGCAGGAGTTGCATCAGTGTGGCAAAA R P E E M P I S N L G R R S C I S V A K	1440 328
1441 329		1500 342
1501		1560
1561		1620
1621		1680
1681		1740
1741		1800
1801		1860
1861		1920
1921	. $. \\$ TGCCTCAGCCTCCCGAGTAGCTGGGATTAGAGGCGCCAGCCA	1980

Figure 1C

1981	TGTATTTTAGTAGAGACAGGGTTTTGCCATGTTGGCCAGGCTGGTCTCGAGCTCCTGAC	2040
2041		2100
2101		2160
2161		2220
2221		2280
2281		2340
2341		2400
2401		2460
2461		2520
2521	. TGCTGAGTCCAATACAATTGCTTTTATAATTGCTTTTGAAAAAAAA	2580

Figure 2A

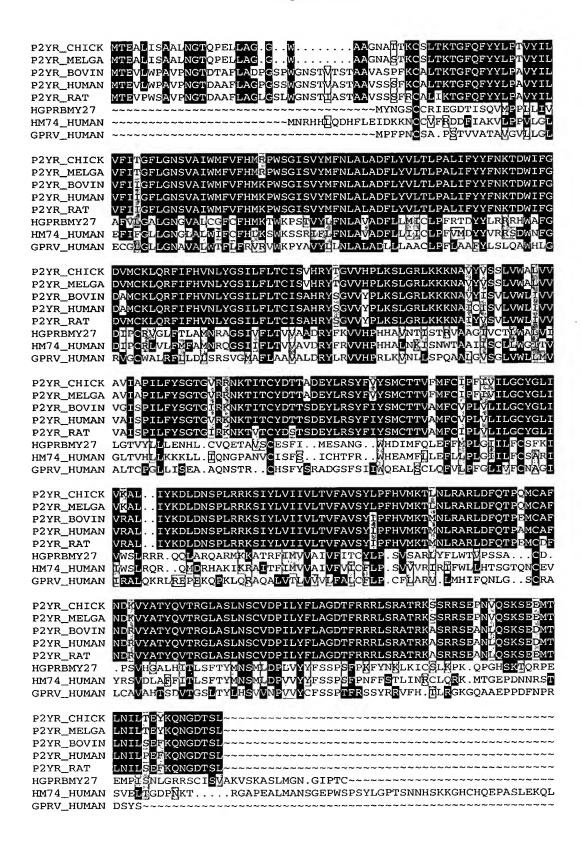


Figure 2B

P2YR_CHICK	~~~~
P2YR_MELGA	~~~~
P2YR_BOVIN	~~~~
P2YR_HUMAN	~~~~
P2YR_RAT	~~~~
HGPRBMY27	~~~~
HM74_HUMAN	GCCIE
GPRV HUMAN	~~~~

Figure 3

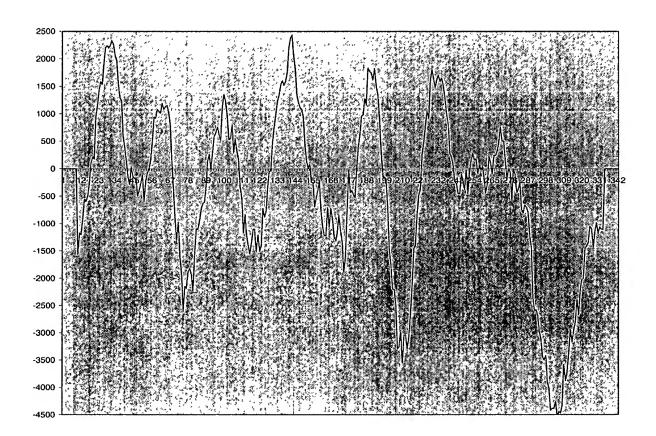


Figure 4

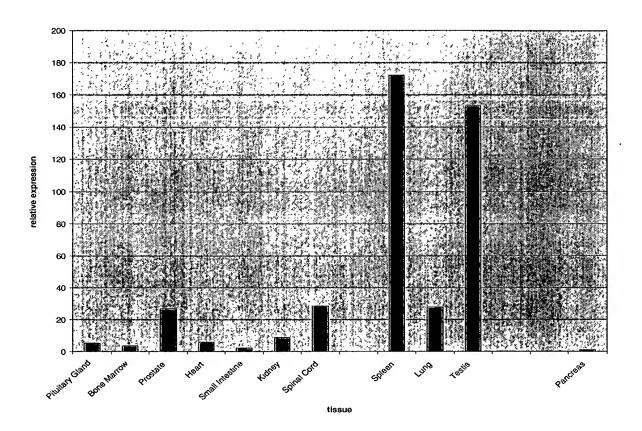


Figure 5.

<u>Protein</u>	SWISS-	<u>Identities</u>	<u>Similarities</u>
	PROT ID		
chicken P2Y purinoceptor 1 (ATP RECEPTOR) protein	P34996	28.9%	39.4%
turkey P2Y purinoceptor I (ATP RECEPTOR) protein	P49652	28.9%	39.4%
bovine P2Y purinoceptor 1 (ATP RECEPTOR) protein	P48042	28.7%	39.8%
human P2Y purinoceptor 1 (ATP RECEPTOR) protein	P47900	28.7%	39.5%
rat P2Y purinoceptor 1 (ATP RECEPTOR) protein	P49651	28.7%	39.8%
human G protein-coupled receptor, HM74 protein	P49019	53.6%	61.0%
human G protein-coupled receptor, GPR31 protein	O00270	33.0%	43.6%

Figure 6

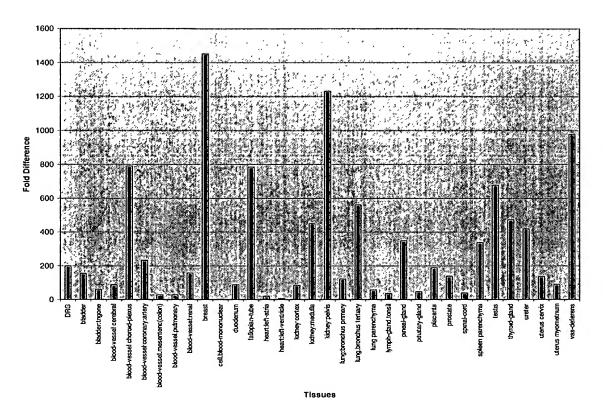


Figure 7

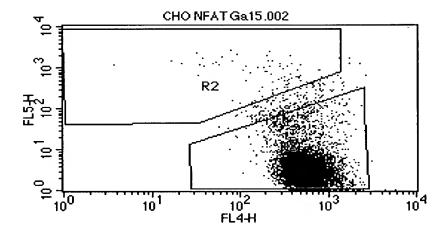


Figure 8

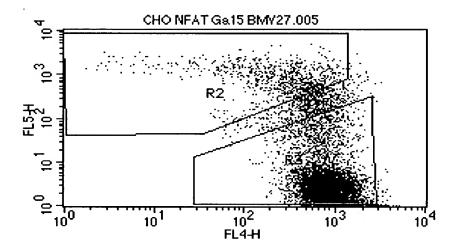


Figure 9

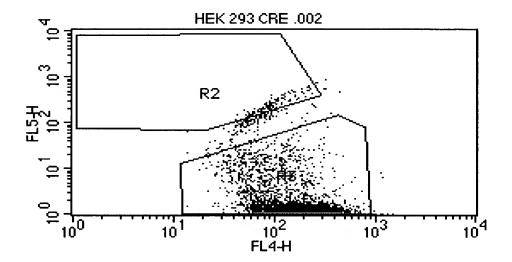


Figure 10

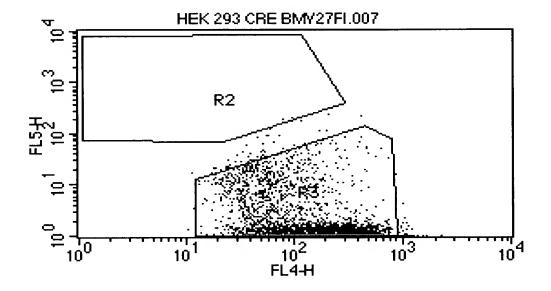
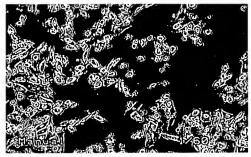


Figure 11

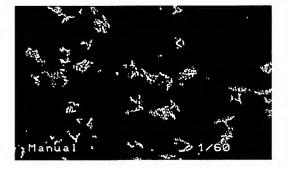
Cho NFAT Ga15 Control (Fluorescent vs. Bright Field)





Cho NFAT Ga15 BMY27 (Fluorescent vs. Bright Field)





D0134 NP

Figure 12

